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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,201	01/04/2002	Martin L. Plumer	S01.12-0841/STL 10302	2044
7590	02/18/2005		EXAMINER	
Brian D. Kaul WESTMAN-CHAMPLIN & KELLY Suite 1600 - International Centre 900 South Second Avenue Minneapolis, MN 55402-3319			KIM, PAUL D	
			ART UNIT	PAPER NUMBER
			3729	
DATE MAILED: 02/18/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/039,201	PLUMER ET AL.
	Examiner	Art Unit
	Paul D Kim	3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 15 November 2004.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-35 is/are pending in the application.
 4a) Of the above claim(s) 2,4-8,19-22,34 and 35 is/are withdrawn from consideration.
 5) Claim(s) 15-18 and 23-33 is/are allowed.
 6) Claim(s) 1 and 10-14 is/are rejected.
 7) Claim(s) 3 and 9 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. _____.
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 11/15/04. 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

This office action is a response to the amendment filed on 11/15/2004.

Response to the Restriction Requirement

1. Applicant's election with traverse of Group I, claims 1, 3, 9-15, 17, 23-29, 32 and 33, in the reply filed on 11/15/2004 is acknowledged. The traversal is on the ground that all the claims as filed would not require additional searching, not place any undue burden on the patent office, including the product claims (claims 19-22) can be made by another and materially different process with claim 1 as per the restriction requirement mailed on 3/23/2004. This is not found persuasive. Accordingly, claim 1 (process claims) recites a limitation of defining a pole tip of the writing pole having an air bearing surface and a thickness substantially corresponding to a thickness of the tip portion. Also, applicant argues that examiner fails to provide no response to applicant's request for reconsideration filed on 6/28/2004. This is not found persuasive. Accordingly, claims 1 and 15 do not require the lift mask to form a ramp step and do not require a milling process to form a ramp portion.
2. The requirement is still deemed proper and has acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

The requirement is still deemed proper and is therefore made FINAL.

3. Claims 2, 4-8, 16, 19-22, 34 and 35 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no

allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 7/1/2004.

4. Since generic claim 23 allowable, claims 24-33, directed to the method of forming a beveled writing pole of a perpendicular writing element, previously restricted from the election of species, are now subject to bring rejoined. Claims 23-33 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, 10-12 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Das (US PAT. 5,075,956).

Das teaches a process of fabricating a recording head comprising steps of: forming a ramped step (74) having a high side, a low side, and a ramp portion having a top surface extending from a top surface of the high side to a top surface of the low side, wherein the top surface of the ramp portion is non-perpendicular to the top surface of the high side and low sides as shown in Fig. 23a; forming a writing pole portion (76) on the ramped step having a top portion overlaying a beveled portion as shown in Fig. 24a; and defining a pole tip of the writing pole portion having an air bearing surface (see

also Figs. 28-30) and a thickness substantially corresponding to a thickness of the top portion as shown in Figs. 24a and 24b (see also col. 7, line 57 to col. 8, line 68).

As per claims 10 and 11 the ramped step is formed of an insulating material (aluminum oxide) and the writing pole portion is formed of a magnetic material (NiFe).

As per claim 12 the ramped step is formed by etching the substrate (74).

As per claim 14 the ramp portion is sloped at an angle of approximately 45 degrees.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Das.

Das teaches all of the limitations as set forth above except a thickness and a width of the pole tip. The writing pole portion of Das is formed with a predetermined thickness. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to form the thickness and width of the pole tip as recited in the claimed invention because Applicant has not disclosed that the brazing material as recited in the claimed invention provides an advantage, is used for a particular purpose, or solves a stated problem. Therefore, it would have been an

obvious matter of design choice to modify the thickness and width of the pole tip of Das to obtain the invention as specified in claim 13.

Allowable Subject Matter

9. Claims 3 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
10. Claims 15-18 and 23-33 are allowed.

Response to Arguments

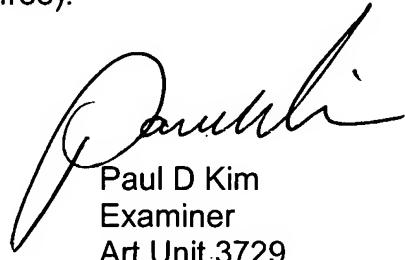
11. Applicant's arguments with respect to claims 1, 3, 9-18 and 23-33 have been considered but are moot in view of the new ground of rejection.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Friday between 8:00 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Paul D Kim
Examiner
Art Unit 3729